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DESCRIPTION

REFLECTOR ANTENNA DEVICE

T.H. This application is a 371 of PCT/JP03/13776 filed on 12/25/2003.

TECHNICAL FIELD

The present invention relates to an antenna device, and more particularly to a reflector antenna device having two reflector surfaces.

BACKGROUND ART

Conventional reflector antenna devices having two reflectors include those disclosed in, for example, "A Simple Procedure for the Design of Classical Displaced-Axis Dual-Reflector Antennas Using a Set of Geometric Parameters", IEEE Antennas and Propagation Magazine, Vol. 41, No. 6, pp. 64-72, in December, 1999, written by Tom Milligan. An example of the reflector antenna devices disclosed therein is shown in Fig. 12. As shown in Fig. 12, an electromagnetic wave radiated from a primary radiator 3 is reflected by an auxiliary reflector 1, reflected by a main reflector 2, and then radiated to a space. Also, because the configurations of the auxiliary reflector 1 and the main reflector 2 are determined so that the electromagnetic wave that has been radiated from a phase center 4 of the primary radiator 3 geometrical-optically passes through paths of 4-P-Q-R and 4-U-V-W, no electromagnetic wave